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(56) Documents Cited
GB 1566786 A GB 0867386 A GB 0467278 A
US 4197358 A US 4136484 A US 3395484 A
US 1586796 A

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Online: EPODOC, PAJ, WPI.

(54) Abstract Title
Bendable doll

(57) Two forms of bendable doll are described. In a first form, the doll comprises a body formed with a head 4 and an upper body part formed of plastic metal wire 7, clothes (13, Fig. 2) covering the wire and some stuffing (12, Fig. 2). The wire is bendable so that doll's pose can be changed. Lower limbs 2 and a base 8 may be provided as a single integrated form. In a second form, the doll comprises a small bead (4, Fig. 3) which forms the head, a large bead (5, Fig. 3) which forms the trunk and upper and lower limbs (6, 2, Fig. 3). The upper limbs are made from plastic metal wire, plastic metal bar, or thread with leather covering and are curved at each end to hold accessories. The lower limbs are formed by a piece of elastic rope with boots or shoes at the ends. The doll may be displayed in a frame (21, Fig. 6).

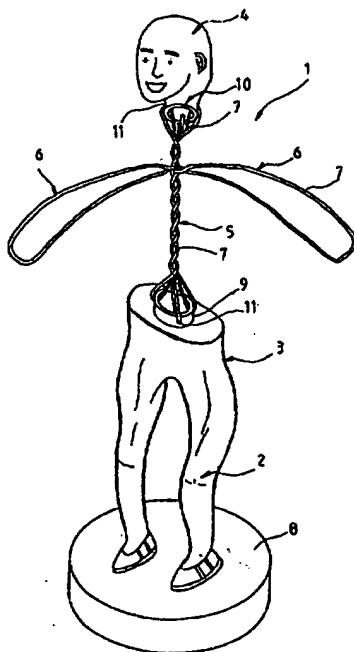


FIG. 1

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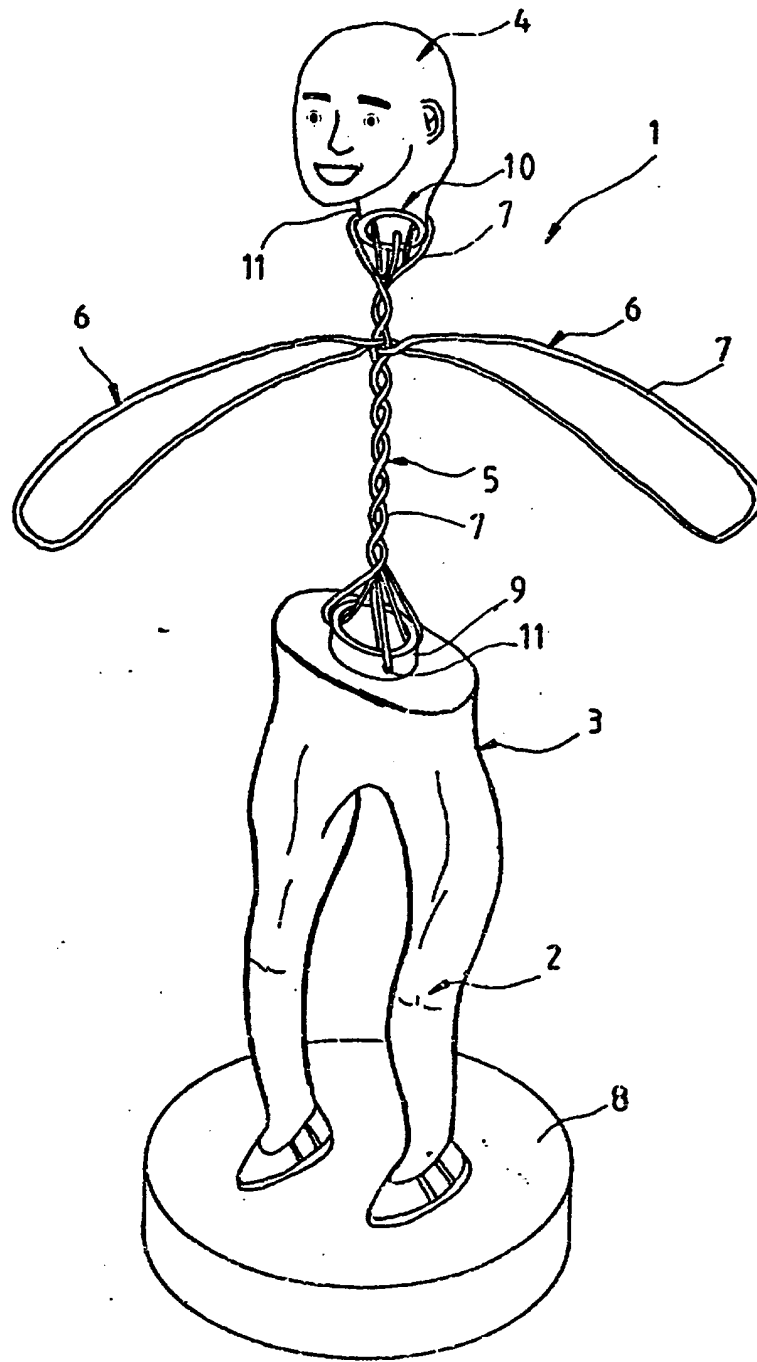


FIG. 1

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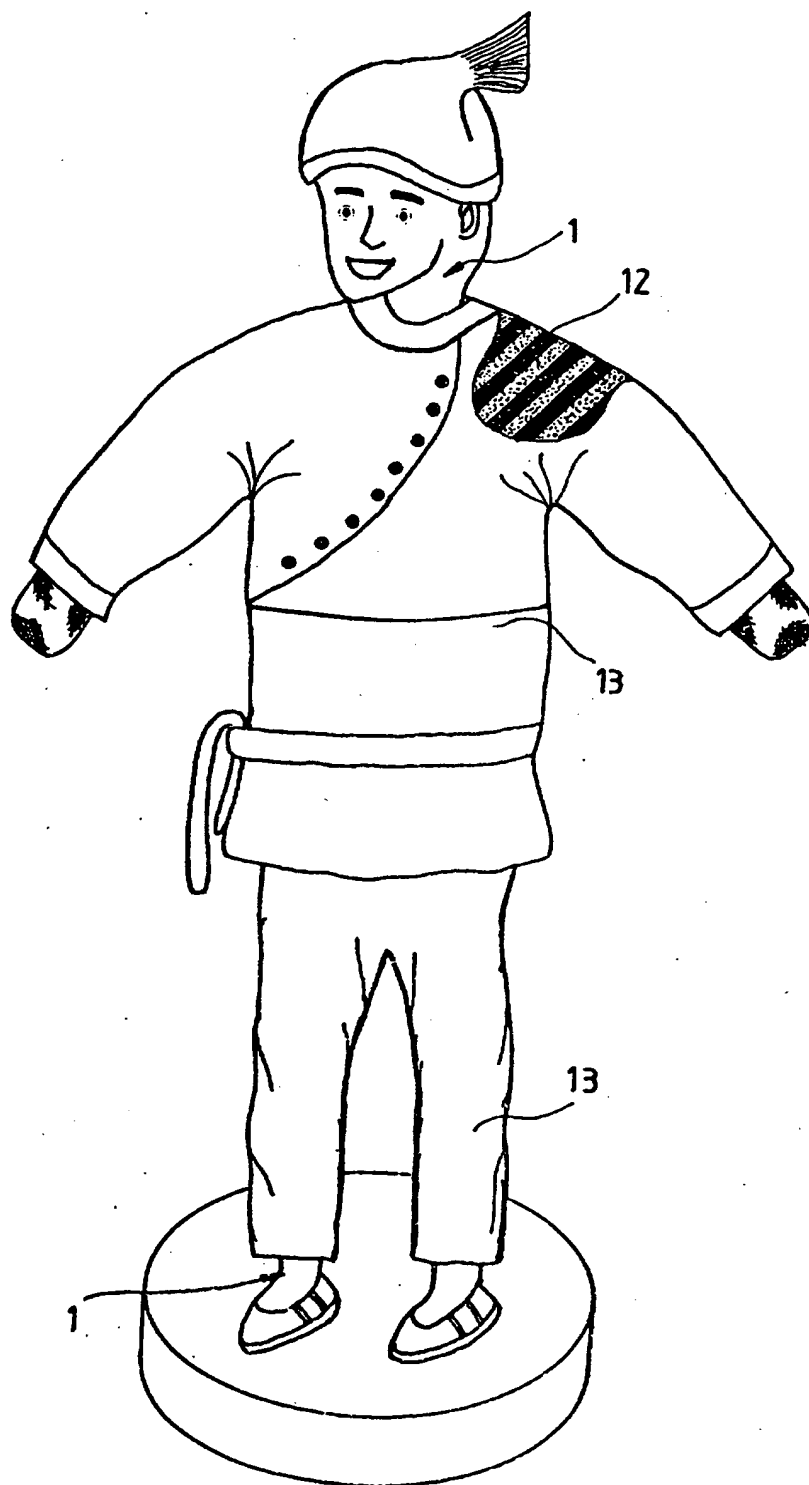


FIG. 2

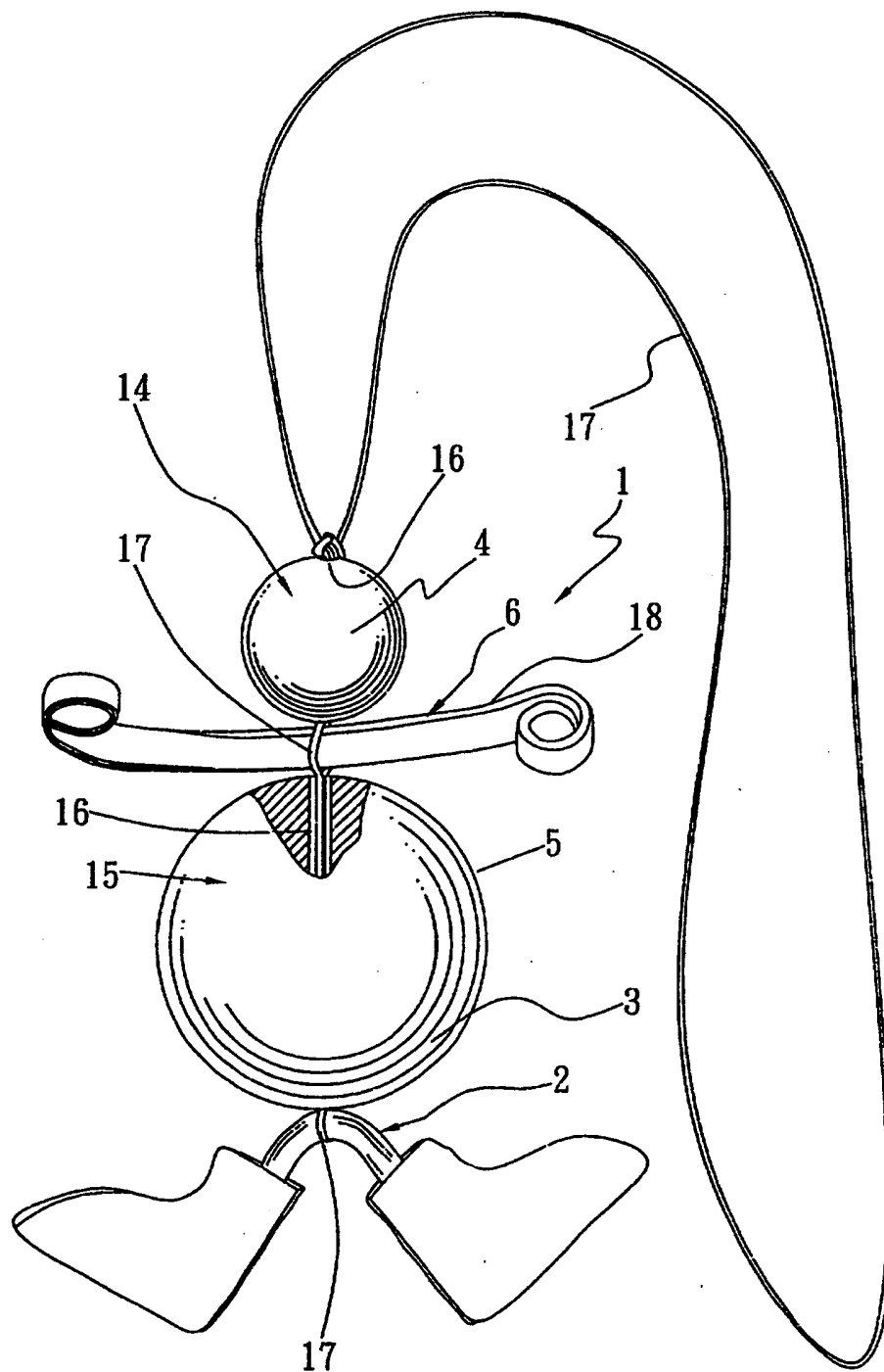


FIG. 3

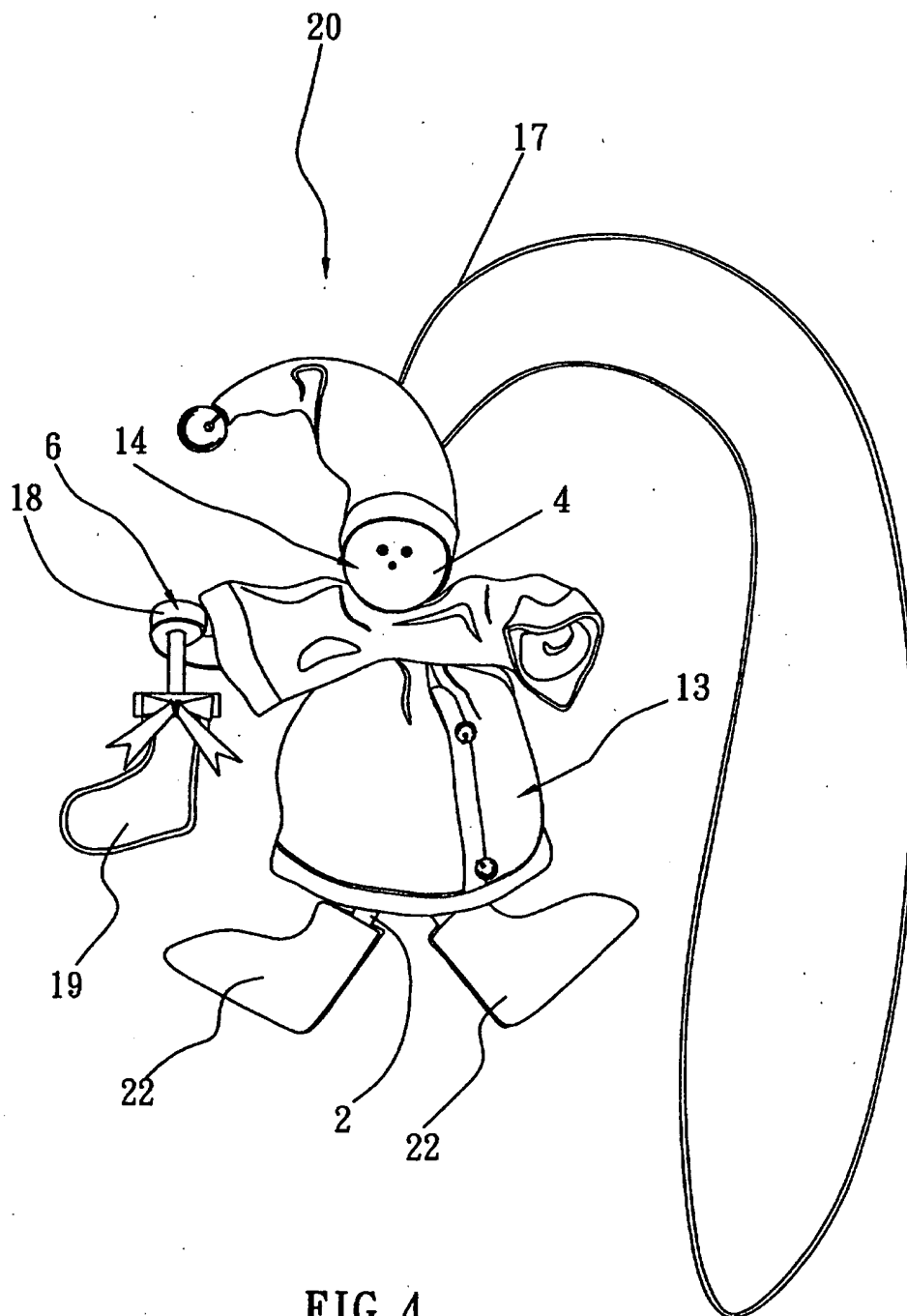


FIG. 4

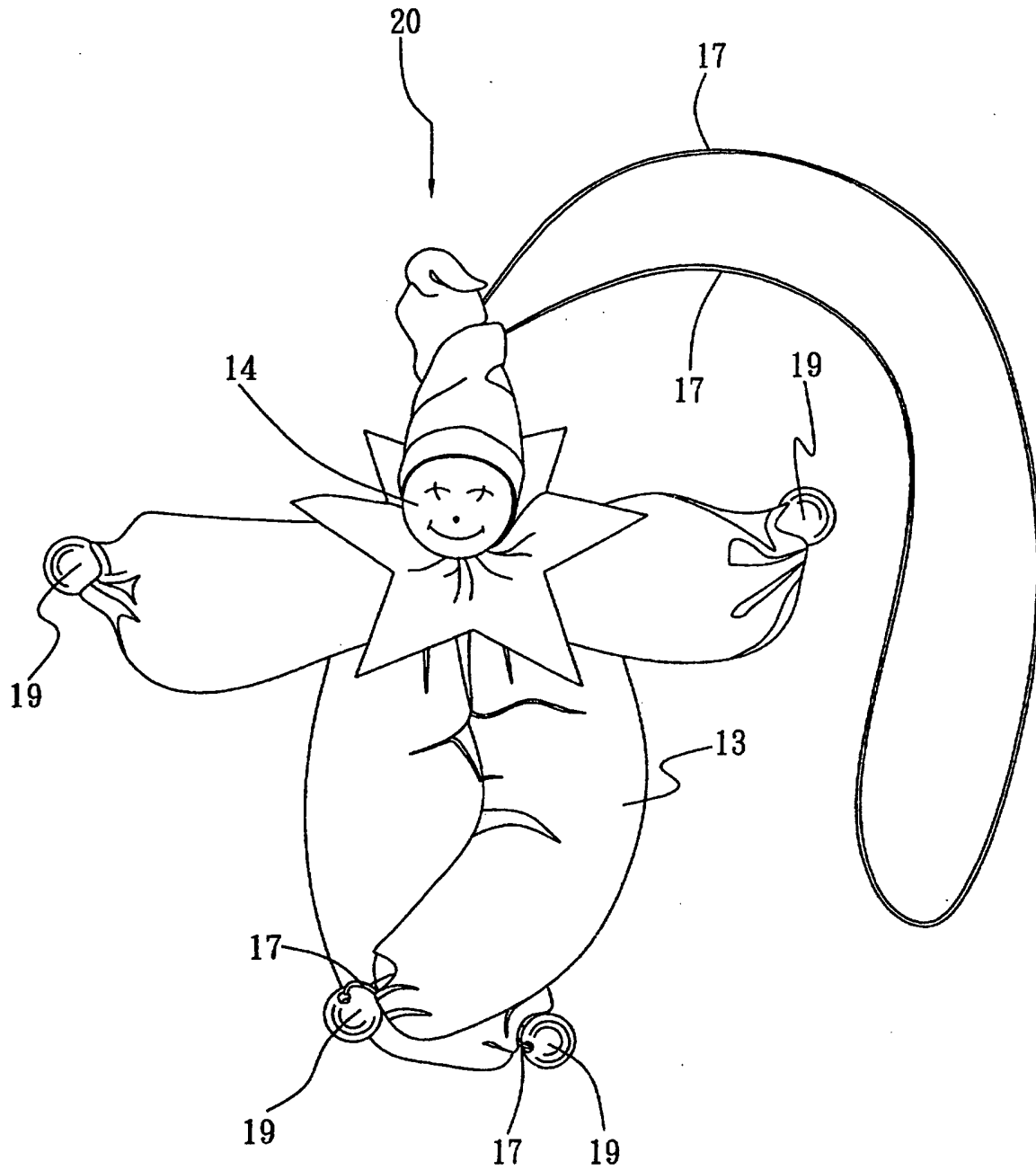


FIG. 5

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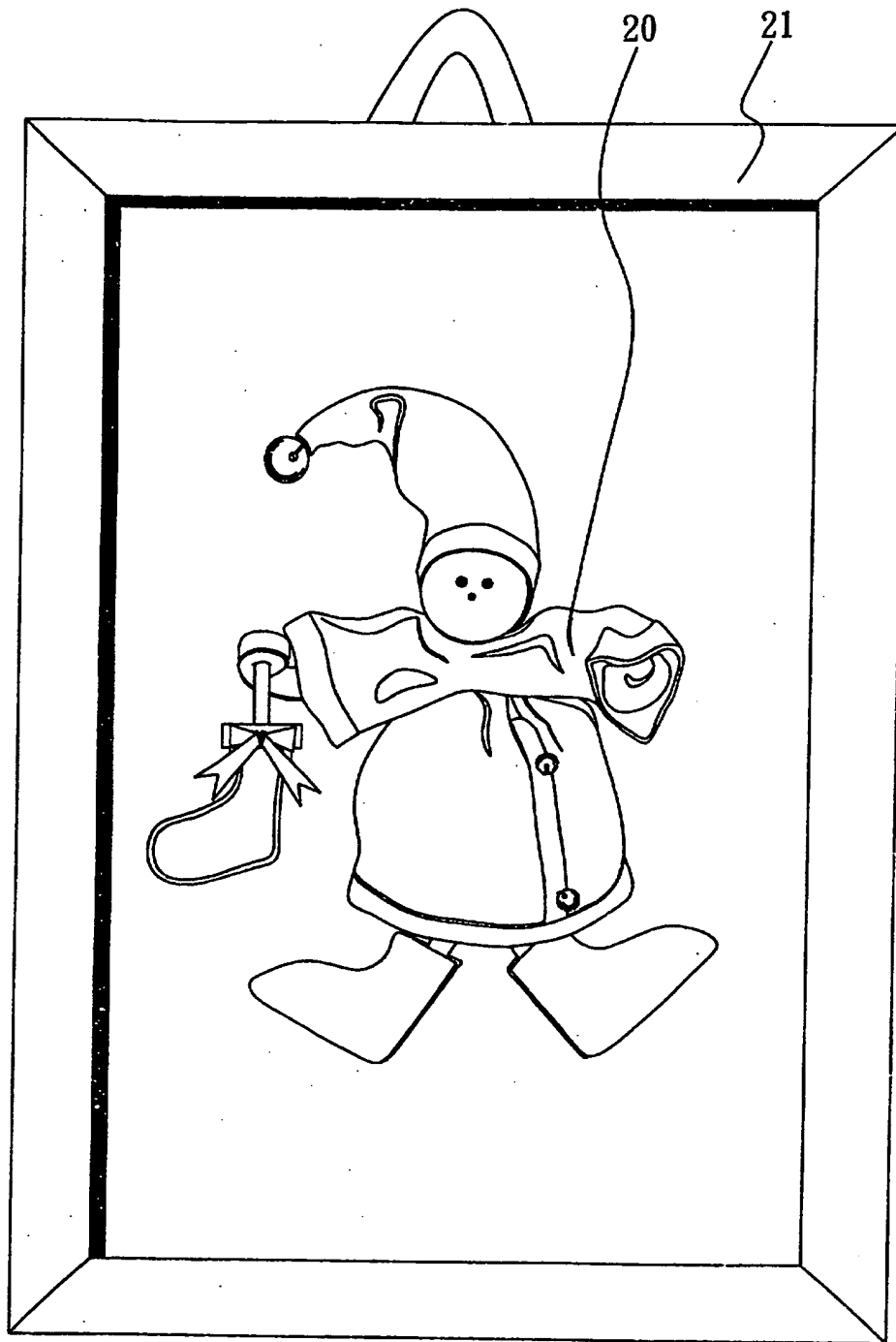


FIG. 6

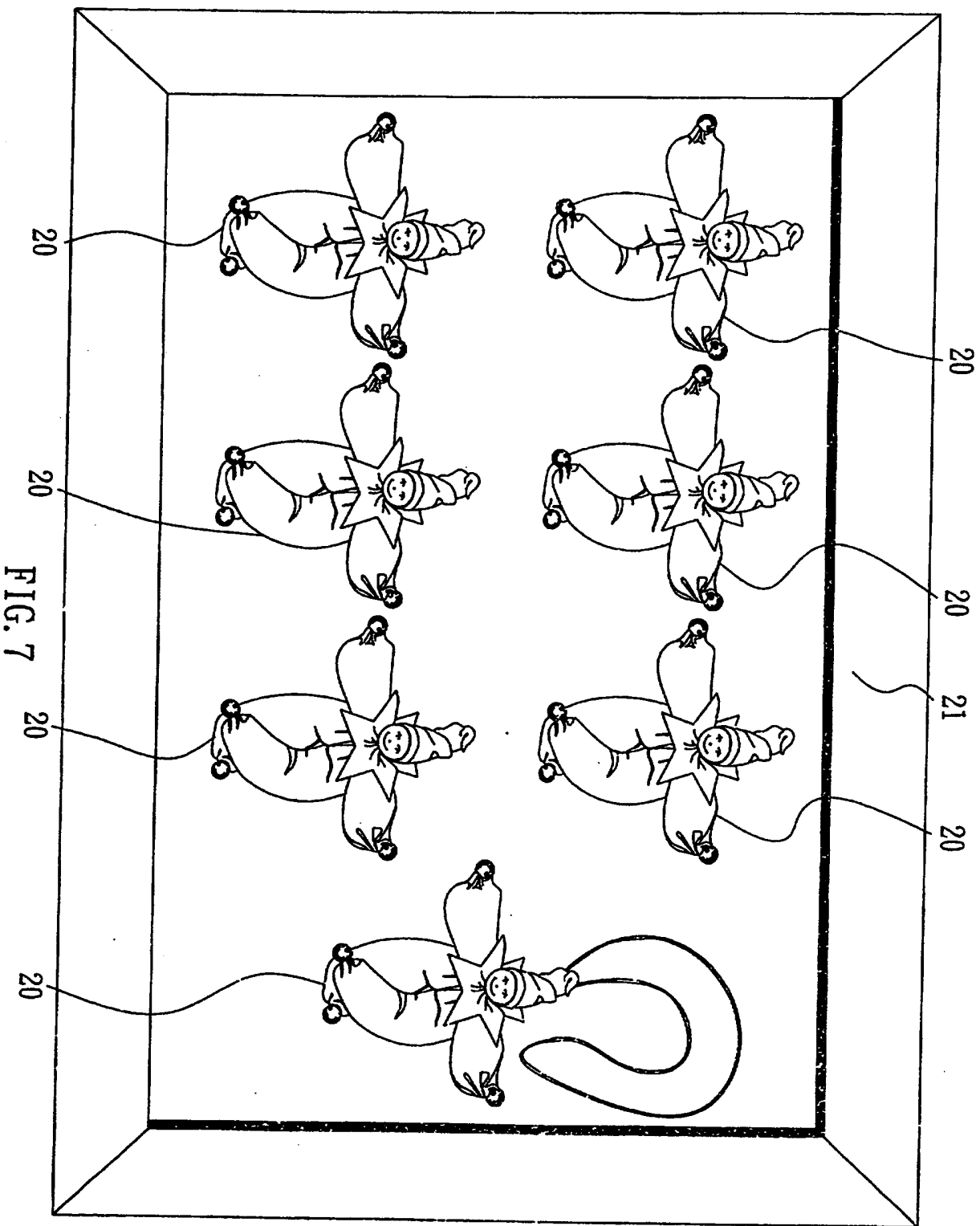


FIG. 7

PATENTS ACT 1977**AGENTS REF : P14295GB-CAH/SJP/mm****IMPROVED STRUCTURE OF DECORATIVE DOLL**

THE PRESENT INVENTION refers to an improved structure of decorative doll, and more particularly for a doll partially made of plastics material, covered with various clothes and wherein the posture of the doll can be changed by the users.

At present, conventional similar products provide a doll shaped as one integrated body, which may be covered with various kinds of clothes. The appearance of the doll may be very cute, funny, or splendid and can attract consumers to buy or use it. However, such conventional dolls have bodies of fixed posture which are unchangeable. The users will feel bored with such dolls in the long run, and may desert them within a few weeks or months.

The main object of the present invention is to address the above-mentioned problem and provide an improved structure of decorative doll.

The upper frame of the doll (upper limbs and spine) is made of plastics material which enables the doll's position to be changed at any time. The doll can make the posture of folding hands in front, waving hands, taking a bow, dancing, or sporting. The dolls can be made as different ages, sexes, and postures; these different dolls can be put together to make a play for fun.

Another object of present invention is to provide a doll with lower limbs made by elastic ropes. The doll's lower limbs will swing as the user is moving. The doll can be hung on the user's body or bag for decoration

The present invention refers to an improved structure of decorative doll, comprising an upper part of body (spine and upper limbs) made from plastic wire which can be bent freely and shaped as certain posture, or changed from one posture into another at any time. Another decorative doll is that with lower limbs made by elastic ropes, and wherein the limbs can be made to swing under the action of the user's movement.

So that the present invention may be more readily understood and so that further features thereof may be appreciated, embodiments will now be described, by way of example, with reference to the following drawings, in which:-

FIG. 1 is an oblique view of this invention;

FIG. 2 is an exterior view of the present invention with clothes;

FIG. 3 is a structure view of a second embodiment of the doll of the present invention;

FIG. 4 is an exterior view of the second embodiment;

FIG. 5 is a structure view of a third embodiment of the doll of the present invention;

FIG. 6 is a view of the second embodiment applying in a frame; and

FIG. 7 is a view of the third embodiment applying in a frame.

First Practice:

Referring to FIG. 1, there is shown, this improved structure of decorative doll (1) comprising an upper part (except the head) made of plastic wire (7) which can be bent into different postures by the users for fun at any time. For the first embodiment of the present invention (1), the head (4), and the bottom (3) with lower limbs (2) are made by suitable material, such as plastic, pottery clay, or plaster to be an integrated body having fixed shape. Upper limb (6) and spine (5) installed between the head and bottom are made of plastic wire. The doll's bottom (3) and lower limbs (2) are similar to a true man's or woman's or that of a figure in a cartoon standing on the base plate (8) with any pose. The said base plate (8) is made by the same material of bottom (3) and lower limbs (2) such as plastic, pottery, or plaster (2) and are shaped as one integrated body at the same time.

A first connecting structure (9) installed above the bottom (3) is for connecting the upper part (5) of the body in position. The upper body (5) similar to a man's or a woman's spine is twisted from three plastic metal wires. The head (4) connects the upper body (5) by second connecting structure (10) and is supported by the upper body (5) to make different poses.

Between the head (4), upper part (5), and bottom (3) are two connecting parts (9),(10), which protrude from a portion (11) of the head (4) and the bottom (3). The plastic wires (7) of the upper part twist around the connecting hole (11) of the protruding portion to hold the upper part in position. Of course, these plastic wires can be connected with a screw or glue to achieve the same object.

Above the upper part (5) is a head (4) shaped as one integral body by suitable material at one time, of which sex can be male or female; age can be childish, young, middle-aged, or old-aged; facial expression can be happy, angry or sad. In a suitable place below the head (4) are upper limbs (7) made by folded plastic wire across the upper part (5).

Referring to FIG. 1-2, the present invention (1) is covered with various clothes (13) according to its sex and age. The clothes (13) can be clothes in ancient times or in modern ones such as a long robe, clothes with pants, or skirt. The materials of the clothes can be cloth, silk, or leather as what humans wear. There may be some stuffing (12) such as synthetic cotton or some other soft materials filled inside the clothes in upper part (5).

Second Practice:

Referring to FIG. 2-4, the head (4), bottom (3), and upper part (5) of present invention (1) are made by a small bead (14) with big bead (15). The rope (17) through the central hole (16) can hold the upper limbs (6) between the two beads. Two ends of the rope (17) stretching out of the big bead (15) connect to the lower limb (2). The small bead (14) and big bead (15) are made by suitable material, such as wood, plastic, pottery clay, or plaster. The holes (16) in center of the two beads are for the rope (17) to pass through the two beads (14), (15). The face of the doll is painted on one side of the small bead (4), and the head (4) will turn when the rope in central hole (16) is pulled.

The upper limb (6) is made by plastic metal wire or a bar and is held between the rope (17) on two sides. Two ends of the upper limb (6) are curved and can hold some accessories (19) on hands. Two ends of the elastic rope

(17) connect the lower limb (2) and boots (22) down below the big bead (15). The doll can be covered with some clothes (13) and some accessories (19) can be added.

Third Practice:

Referring to FIG. 5, the doll (1) is covered with stuffing and leather clothes over of the big bead (15). The rope (17) passing through the small bead (14) connects the upper limbs and the lower limbs of which two ends are provided with accessories (19) in position.

Referring to FIG. 6-7, the second and third practice of the present invention (20) can be hung on a user's body, a user's accessories, in a car, a room, or be associated with a frame for decoration.

The plastic metal wire referred to herein may comprise a metal wire coated with a layer of plastics material.

In the present specification "comprise" means "includes or consists of" and "comprising" means "including or consisting of".

The features disclosed in the foregoing description, or the following claims, or the accompanying drawings, expressed in their specific forms or in terms of a means for performing the disclosed function, or a method or process for attaining the disclosed result, as appropriate, may, separately, or in any combination of such features, be utilised for realising the invention in diverse forms thereof.

CLAIMS:

1. A decorative doll structure, comprising:

a body of which the head is shaped as one integrated body connecting with upper parts of the body made by plastic metal wire; the plastic parts being bendable so to make different poses and allow a change of one pose into another at any time; and clothes according to the sex of the doll covering on said plastic wire and with some stuffing inside, constructing a body.

2. A decorative doll structure as recited in claim 1 where the lower limbs and bottom are shaped as one integrated body by suitable material, the upper part of the body includes upper limbs which can be bent to make different postures; the upper limbs being made by plastic metal wire and supporting the head and upper part of body above the bottom.

3. A decorative doll structure as recited in claim 2 where connecting structures are provided in a protruding portion of the bottom and the head; each said protruding portion having a hole for receiving the plastic wire and holding it in position therein.

4. A decorative doll structure, comprising:

a body of which the head, bottom, and upper part are made by one small bead along with one big bead having a central hole for the passage of a rope connecting different parts of the body; said small bead having a face on one side and being capable of making different poses; the upper limbs being located between small bead and big bead, and being made by plastic metal wire, plastic metal bar or thread with leather covering which are curved at two ends for holding accessories; two ends of the elastic rope connecting the lower limbs

with boots or shoes; and a clothes covering on the body of the doll accompanying with some accessories.

5. A decorative doll structure as recited in claim 4, wherein the lower part of the body made by the big bead can be shaped as a cartoon figure, covering with leather clothes filled with stuffing inside; and wherein the rope passing out of the small bead connects the upper limbs and the lower limbs with accessories in position.

6. A decorative doll structure substantially as herein described with reference to and as shown in Figures 1 and 2 of the accompanying drawings.

7. A decorative doll structure substantially as herein described with reference to and as shown in Figures 3 to 6 of the accompanying drawings.

8. Any novel feature or combination of features disclosed herein.



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Claims searched: 1 to 3 & 6

Examiner: Matthew Jefferson
Date of search: 2 February 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): A6S

Int Cl (Ed.7): A63H 3/04.

Other: Online: EPODOC, PAJ, WPI.

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 1566786 A (MEGO CORP) See figures.	1.
X	GB 867386 A (UPPERTON) See figures.	1.
X	GB 467278 A (ORTELLI ET AL) See figures.	1.
X	US 4197358 A (GARCIA) See figures.	1.
X	US 4136484 A (ABRAMS) See figures.	1.
X	US 3395484 A (SMITH) See figures.	1.
X	US 1586796 A (GOLD ET AL) See figures.	1.

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.